

Notice of Allowability

Application No.

10/660,544

Applicant(s)

PALIN ET AL.

Examiner

Perez M. Angelica

Art Unit

2618

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to RCE filed 9/11/2007.
2. ☒ The allowed claim(s) is/are 1-29.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO/SB/08),
Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit
of Biological Material
5. ☐ Notice of Informal Patent Application
6. ☒ Interview Summary (PTO-413),
Paper No./Mail Date 9/11/2007.
7. ☐ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____

DETAILED ACTION

Allowable Subject Matter

1. Claims 1-29 are allowed.
2. The following is an examiner's statement of reasons for allowance:

Regarding claims 1, 28 and 29, the prior art of record teaches a method, system and computer usable medium of establishing a wireless communications link, the method comprising: (a) discovering by a wireless communicating device (WCD) in an ad hoc network the existence of a remote device within a coverage area through a first short-range communications interface, the first short-range communications interface communicating through a first short-range communications link according to a first short-range communications protocol; (b) determining through the first short-range communications link whether the remote device is capable of supporting communications over a second short-range communications link through a second short-range communications interface, the second short-range communications interface operating according to a second short-range communications protocol.

The prior art of record fails to teach of (c) exchanging information by the WCD with the remote device **across the first communications link to establish the second short-range communications link** between the WCD and the remote device if step (b) determines that the remote device is capable of supporting communications over the second short-range communications link;

(d) **activating the second short-range communications interface to establish the second short-range communications link with the remote device**

based on the information exchanged across the first short-range communications link, and (e) controlling transmissions of the first and second communication links to operate in a scheduled manner.

Regarding claim 17, the prior art of record teaches a wireless communications device, comprising: a first segment adapted to exchange information with a remote device across a first short-range wireless communications link of a first type in an ad hoc network; a host coupled to the first segment; and a second segment adapted to exchange information with the remote device across the second communications link.

The prior art of record fails to teach where the host is adapted to cause the first segment to exchange information with the remote device **across the first communications link to set up a second short-range wireless communications link of a second type operating according to a second short-range communications protocol**, in response of determining through the first short-range communications link that the remote device is capable of supporting a short-range communications link of the second type, **the information including one or more parameters of the second short-range communications link; and link controllers controlling transmission of the first and second communication links to operate in a scheduled manner.**

Regarding claim 23, the prior art of record teaches a wireless communications device, comprising: a first segment adapted to exchange information with a remote device across a first short-range wireless communications link of a first type; a host coupled to the first segment, the host adapted to cause the first segment to exchange

information with the remote device across the first communications link to set up a second short-range wireless communications link of a second type operating according to a second short-range communications protocol, in response of determining through the first short-range communications link that the remote device is capable of supporting a short-range communications link of the second type, the information including one or more parameters of the second short-range communications link; and a second segment adapted to exchange information with the remote device across the second communications link; where the first communications link is a Bluetooth link and the second communications link is an ultra wideband (UWB) link, both links connecting the host to the remote device; wherein the first segment includes a link manager adapted to exchange one or more Bluetooth link manager protocol (LMP) messages with the remote device.

The prior art of record fails to teach where **the one or more LMP messages includes an LMP message (LMP_switch to UWB_link_req)_adapted to direct the remote device to begin accepting transmissions across the UWB link.**

3. Claims 1-16; 18-22, 24-27 and 24 depend on claims 1, 17 and 23, respectively; therefore, the examiner gives the same reasons for allowance as set forth above.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Angelica Perez whose telephone number is 571-272-7885. The examiner can normally be reached on 6:00 a.m. - 2:30 p.m., Monday - Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Matthew D. Anderson can be reached on (571) 272-4177. The fax phone numbers for the organization where this application or proceeding is assigned are 571-273-8300 for regular communications and for After Final communications.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either the PAIR or Public PAIR. Status information for unpublished applications is available through the Private PAIR only. For more information about the pair system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). Information regarding Patent Application Information Retrieval (PAIR) system can be found at 866-217-9197 (toll-free).

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the TC 2600's customer service number is 703-306-0377.

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Angelica Perez
Examiner



MATTHEW ANDERSON
SUPERVISORY PATENT EXAMINER

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November 16, 2007